

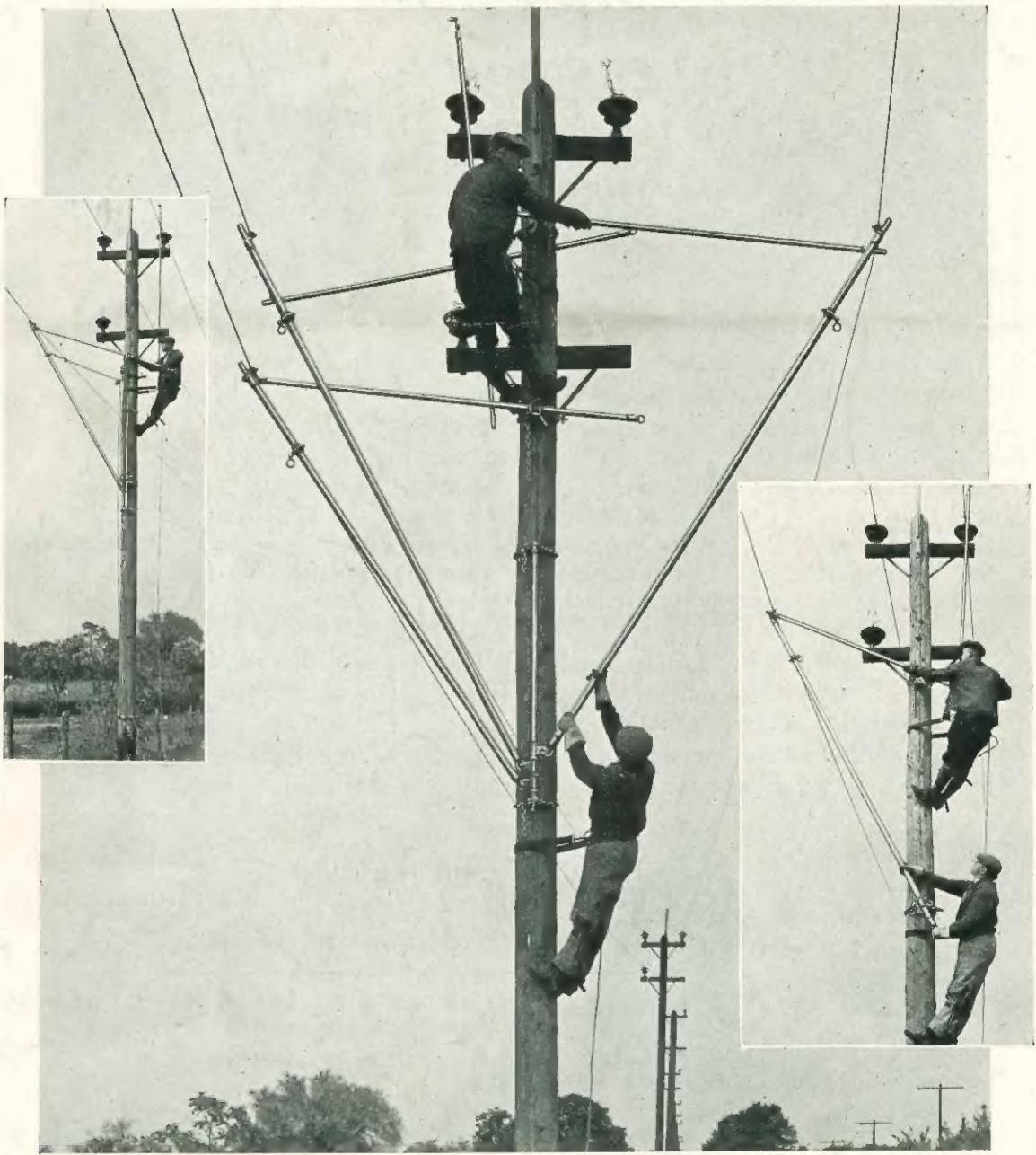
TIPS TOOL COMPANY, INC.

Electrical Live Line Equipment

MAINTENANCE — GROUNDING — TAP OFF CLAMPS

MAIN OFFICE AND FACTORY, 325 EAST MAIN STREET

TAYLORVILLE, ILLINOIS



THREE ILLUSTRATIONS SHOWING USE OF TIPS WIRE TONG SADDLES

Removing first phase (center photo showing application of block and tackle for heavy or stubborn lines. (See Next Page.)

Tools used in above photo:

- 1—M4740-3 Wire Tong Saddle
- 1—M4655 1½" x8' Wire Tong
- 1—M4656-1 2" x10' Wire Tong
- 1—M1729 Wire Tong Bands
- 1—M1741-2 Wire Tong Support
- 1—M1846 Snubbing Bracket
- 2—M1855 Tie Sticks

Three Saddles and Slide Type Wire Tong Support Method of manipulating three phases. (See Next Page.)

Tools used in above photo:

- 2—M4740-3 Wire Tong Saddle
- 1—M4740 Wire Tong Saddle
- 1—M1741-2 Wire Tong Support
- 3—M4655 1½" x8' Wire Tongs
- 1—M4656-1 2" x10' Wire Tong
- 2—M4656-3 2" x12' Wire Tongs
- 3—M1729 Wire Tong Bands
- 2—M1855 Tie Sticks

Two Saddle Method of manipulating single conductor. (See Next Page.)

Tools used in above photo:

- 1—M4740-3 Wire Tong Saddle
- 1—M4740-4 Wire Tong Saddle
- 1—M4655 1½" x8' Wire Tong
- 1—M4656-1 2" x10' Wire Tong
- 1—M1729 Wire Tong Band
- 2—M1855 Tie Sticks

"THERE'S NOTHING TOO GOOD WHERE LIFE IS AT STAKE"



TIPS WIRE TONG SADDLES

No. M4740 to M4740-6



Fig. No. 2

RECOMMENDED as an additional safety measure to be incorporated in Tips method of Live Line Maintenance. Design of hinge clamp insures absolute safety, as it will not allow accidental displacement of stabilizing Wire Tong. Universal joint action in Saddle

allows a wide range of free action of the Wire Tong and prevents possibility of binding.

Allows free sliding of stabilizing Wire Tong, yet will hold it securely, when desired position is reached, by tightening wing nut. This recommendation is the result of intensive research study, and thorough field tests. The Saddle and Tightener, shown in figure 3, allows the use of a stabilizing Wire Tong, which, with a supporting Wire Tong, permits the manipulation of a live conductor by a lineman on the pole (see page S1) and eliminates the necessity for staking or tying out lines, such as is shown in catalog No. 6, page 6.

A second Saddle, figure 2, may be added to Saddle and Tightener, figure 3, giving a double Saddle arrangement, shown in figure 4, and also shown as applied at top of pole in center illustration, page S1.

Should additional clearance from pole be necessary, an extension, figure 5, may be added, giving effect shown in figure 6.



Fig. No. 3

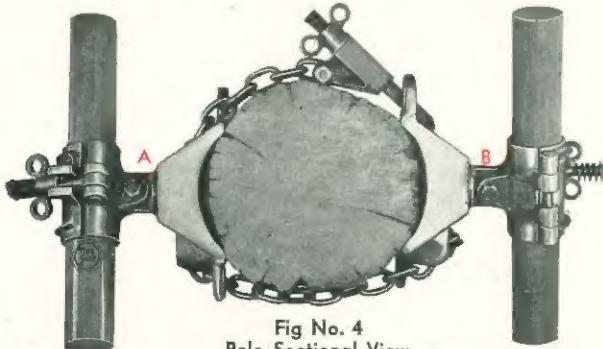


Fig. No. 4
Pole Sectional View



Fig. No. 5

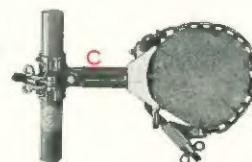


Fig. No. 6

SADDLE ONLY			
Cat. No.	Figure	Description	Wt.
M4740	2 (A)	Saddle 1½"	6¾
M4740-1	2 (A)	" 2"	7¼
M4740-2	2 (A)	" 2½"	9

SADDLE AND CHAIN TIGHTENER			
Cat. No.	Figure	Description	Wt.
M4740-3	3 (B)	Saddle and Tight 1½"	10¾
M4740-4	3 (B)	" " " 2"	11½
M4740-5	3 (B)	" " " 2½"	13
M4740-6	5 (C)	4" Extension	1½

TIPS FUSE PULLER AND DISCONNECT

No. M4226, M4227, M4228, M4229

Self Aligning and Locking Adjustment



Fig. No. 7

TIPS Fuse Puller is superior in fundamental design as shown in illustration. Head can be pivoted toward or away from operator through an angle of 90° between vertical and horizontal positions, with jaw openings remaining the same. This feature permits pulling of cartridge type fuses without leverage being placed on the cartridge in the act of pulling, as the self-aligning head is able to follow the position of the cartridge while still holding it securely.

Will accommodate fuses from $\frac{3}{4}$ " diameter to 2" diameter. Jaw surfaces are rubber-padded to protect fuses and prevent breakage.

Has projection added to raise and lower fuse retainer clips, also for pulling disconnects.

Can be furnished mounted on any length pole. 1 $\frac{1}{4}$ " Diameter poles recommended for lengths up to 12 feet. Poles of greater length should be 1 $\frac{1}{2}$ " diameter. Base end of pole provided with Disconnect Puller. Use Tips Pole Splices for compactness in transportation. Page 15, Catalog No. 6.

Should it be desired, same type of puller can be furnished with locking adjustment for any desired angle.



Fig. No. 8

Cat. No.	Fig. No.	Description	Head Only No.	Disconnect Only	Weight
M4226	7	Mtd. 1 $\frac{1}{4}$ x 6 Self Aligning	M4228	M3046	5 $\frac{1}{2}$
M4227	7	Mtd. 1 $\frac{1}{4}$ x 6 Locking Adj.	M4229	M3046	5 $\frac{1}{2}$

UNIVERSAL FUSE PULLER

No. M4455-34 and No. M4455-35

Self Aligning or Locking Adjustment

Identical with the Fuse Puller mentioned above, except equipped with Universal Spline, for use with Universal Poles, page 32 of Catalog No. 6.



Fig. No. 9

Cat. No.	Fig. No.	Description	Wt.
M4455-34	9	Univ. Self Aligning	2 $\frac{1}{4}$
M4455-35	10	Univ. Locking Adj.	2 $\frac{1}{4}$



Fig. No. 10



TIPS ECONOMY TAP CLAMP

No. S3505, S3506 to S3506-4

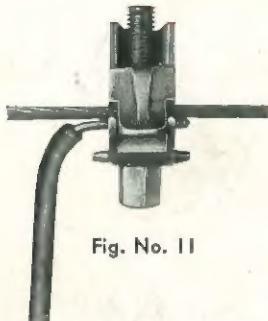


Fig. No. 11



Fig. No. 12



Fig. No. 13

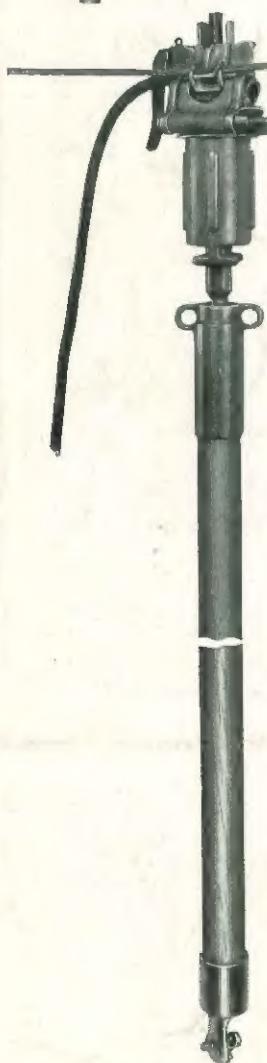


Fig. No. 14

CLAMP shown in figures 11 and 12 represents a new development in the method of tapping off a hot conductor by eliminating separate tap-off connection. Instead of the current passing through the Clamp body, the Clamp directly connects the tap-off wire to the conductor.

Clamp will accommodate any two wires ranging from two No. 8 solid copper to two 2/0 solid copper. Design of Clamp jaws properly locates the wires so they cannot become wedged to produce false tightness when installed with Clampstick G-3505, figure 14.

Furnished in copper to copper and aluminum to aluminum.

Clampstick No. G-3505, shown in figure 14, holds the tap-off wire under complete control until connected to conductor and makes possible the elimination of a separate tap-off connection on back of Clamp. Lower end of pole is equipped with Universal Pole Head, No. M-4455, which will accommodate Tips Universal Attachments, shown on pages 33 to 38 inclusive, Catalog No. 6. Figure 13 shows same Clamp, which can be furnished with additional tapping off means mounted on the back. This type would be necessary for aluminum to copper connections. Such a Clamp also can be used as a junction terminal, from which several service wires can be taken.

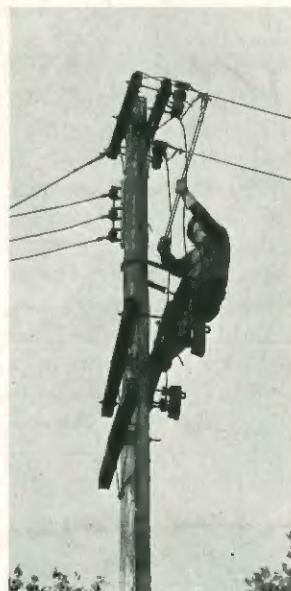


Fig. No. 15

Cat. No.	Fig. No.	Type Connection	Maximum Wire Size		Wt.
			Main Line Con.	Jumper Contact	
S3506	12	CU. to CU.	2/0 Str. CU.	2/0 Str. CU.	3/4
S3506-1	12	AL. to AL.	2/0 A.C.S.R.	2/0 A.C.S.R.	1/2
S3506-2	13	CU. to CU.	2/0 Str. CU.	2/0 Str. CU.	3/4
S3506-3	13	AL. to CU.	2/0 A.C.S.R.	2/0 Str. CU.	3/4
S3506-4	13	CU. to AL.	2/0 Str. CU.	2/0 A.C.S.R.	3/4
S3506-5	14	Mtd. 1 1/4x6	Tips Economy Tap Clamp-Stick		6

Equipment Protected by Patents or Patents Pending.